

TEESING

CONNECT!

“PROGRESS OVER TIME HAS MADE WORK MORE CHALLENGING AND DIVERSE.”



Rick Kooren
Logistics employee

“As one of the employees of the Teesing logistics department, I have found it very motivating to see all the changes we’ve gone through as a company”

Being part of this logistics transition is a challenge and creates different and more diverse work activities for the whole department.

Because of the modernisation in the logistics over the last years we improved the quickness in order-picking and the manually made mistakes are greatly reduced.

We wish you a prosperous and wonderful 2015! Enjoy reading our fifth edition of the Teesing newsletter connect! Please feel free to share this edition with your colleagues.

IMPROVEMENTS IN THE LOGISTICS DEPARTMENT

Rick started his career at Teesing in the Logistics department almost 30 years ago. A lot has changed since then. Back in the 80s, all labels were written manually and the products were picked out of storage bins one by one. There was always the risk of picking the wrong product. Later on the storage contention was introduced. The products were registered or debited by hand in the computer, a time consuming activity.

All this changed over the years. Product serial numbers were introduced, scanned and automatically placed in our system. Customers can even have their own product codes on the packages for a fast and digital check in at their own warehouse. No more hand written labels. The packages are signed up digitally for better and faster registration.

Where in the past a high level of inventory was kept of many of the same products so customers knew we always had a high inventory of specific products available. Nowadays, the inventory is more diverse and we have less of more products on stock.

This is a result of the new shift in focus of being a total solutions provider for the customer.

To pick the orders as efficient as possible, Teesing invested in a special storage system. If needed the storage system is pressurised to minimise contamination and particle movement of the products. The system will present products in just seconds after the digital order file is sent.

Not only the digitalising of activities affected our work in the warehouse, also the shift in strategy added changes to the content of the job. The continuous growth in the demand for creating assembly’s, the logistics and inventory control executed for the International Teesing offices, and the cleanroom assembly’s have all made the work challenging and different compared to 30 years ago.

We are more than ready for the future!



PAST



TODAY

SPOT ON!

ONE OF OUR SPECIAL
PRODUCT IN THE
SPOTLIGHTS...

LAMINAR FLOW RESTRICTION WITH A MINIMUM CHANGE IN DESIGN.

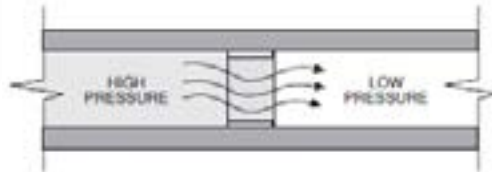
Teesing supplies laminar flow restriction with a minimum change in design.

Porous metal elements can be integrated into all kinds of fittings for a cost effective solution that guarantee laminar flow in your processes.



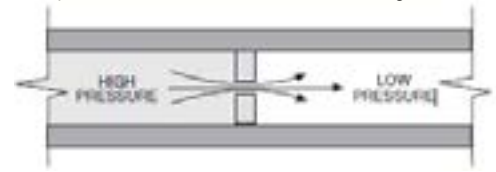
By combining two existing products into one, a completely new product was created. How did our engineering department come up with this innovation? It all evolved by a question of one of our customers in the Semiconductor industry already using our fittings. The challenge was to make a cost effective flow restriction in their system with a minimum of change in the current design. This can be done in two ways:

Using a flow restrictor from with a porous metal element



Flow Restrictor: Gas moves uniformly through porous metal element with minimal friction due to viscosity.

Using a component with an orifice. Restriction by a hole in the house of the fitting.



Standard Orifice: Speed, pressure and heat increase as gas moves through the orifice, causing wear and tear.

OF COURSE THIS INTEGRATION OF A POROUS METAL ELEMENT INTO A FITING CAN BE DONE WITH ANY FITTING!

ARE APPLICATIONS WITH OXYGEN DANGEROUS?

Oxygen not only occurs in nature but can also be obtained with a special process for use as a breathing gas in medicine and aerospace, oxygen is mainly used in the industry as an oxidant for combustion processes in order to achieve high temperatures. Further important fields of use are fuel cells, semiconductor technology or biological processes.

Although oxygen does not burn, it is potentially very dangerous. In its pure form it can cause most known substances to ignite suddenly or under pressure. Many materials can burn with oxygen. Oils and greases largely consist of carbon and are especially dangerous in oxygen systems.

High flow speeds, eddies and turbulence can heat the gas and ignite it. Because of this, sudden transitions from large to small diameters must be avoided. In general valves must not be installed too close to gas bottles and must be only slowly opened manually.

Cleanliness of components is a decisive factor for the safety of oxygen systems. There are special cleaning procedures (for example the Serto OX) but where possible, no use of lubricants is also a perfect solution.

Removing all of organic and inorganic contamination such as greases, oil, thread seals, lubricants, swarf, etc. is essential.

Source: Serto Uptodate





Large purifiers system ready to be lifted into the building.

PURE GAS FOR EXTREMELY CLEAN APPLICATIONS

TEESING SUPPLIES UNIQUE GAS PURIFIER SYSTEMS TO THE SEMICON INDUSTRY.

There is an increasing need for cleaner gases in the high-tech industry. Clean gases are essential for maximising the efficiency of various processes in the chip and semicon market. Gases such as CDA (Clean Dry Air), CO₂ and hydrogen are often purified to a significantly higher downstream quality. The gas ultimately produced contains very little contamination – < 0.1 ppb (parts per billion) – and has a purified quality of 99.99999% (7N).

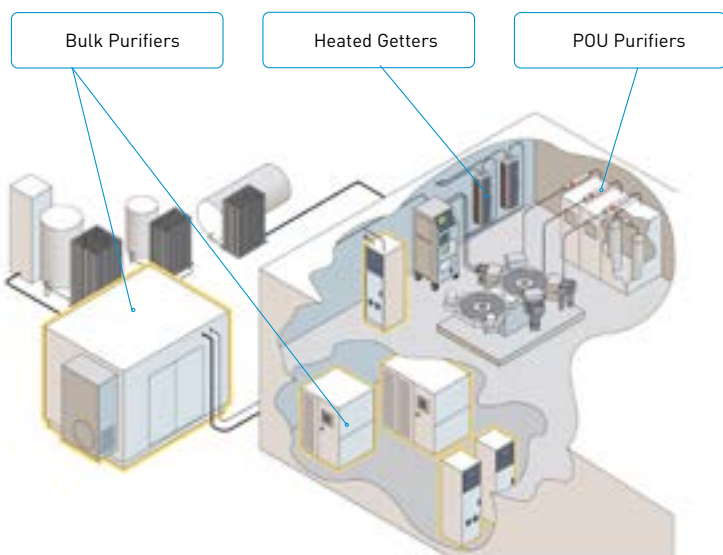
Over the past year, Teesing has installed several bulk purifier systems that can supply a capacity between 400-1,200 m³/h, 24 hours a day, 7 days a week, depending on the gas. Naturally, higher capacities such as 2,500 m³/h are also available. All of these systems are supplied on a customer by

customer basis, depending on the desired quality, capacity and optional features such as sample possibilities for gas chromatography.

In addition to supplying bulk purifiers for utility application, Teesing also has purifiers for point of use application. These purifiers are compact and can be used in a range of applications, such as wafer production, solar cell production and the manufacture of lamps or glove boxes. In addition, so-called 'heated getters', which are primarily used for removing hydrocarbons (e.g. CH₄) in argon, helium or hydrogen, are available for high flows.

A relatively new addition to Teesing's programme is the palladium purifier, which is used to produce the purest form of hydrogen, with a purity level of 9N (99.999999%) and thus less than 1 ppb of oxygen, water, carbon or other contaminants (regardless of the quality received). This is a highly sustainable solution, as the palladium will continue purifying for an infinitely long time when properly operated. These purifiers are primarily used in the production processes of photovoltaic cells, optic fibres and other high-tech applications.

If you want more information please contact our sales engineers or check out our website!
www.teesing.com



CUSTOMER'S VIEW

OMVE NETHERLANDS, SCHALKWIJK
LABORATORY EQUIPMENT FOR THE FOOD INDUSTRY

> **Patrick Hoogendoorn**, Supply Chain Engineer
"for quality, you are at the right place at Teesing".

"Market leader OMVE develops and delivers high-quality, small-scale laboratory equipment worldwide, which food company product developers can use to quickly and easily test their operations. "Every part of our laboratory equipment must withstand high pressure (up to 25 bar), high temperatures (up to 180°C) and strong pressure and temperature fluctuations.

Teesing offers us this quality. For more than 10 years we have used Serto compression fittings in brass and stainless steel 316 Ti. Because of the radial mounting and dismounting, we can work very accurately and quickly in our limited installation space."



www.omve.nl



SHORT NEWS

TEESING USA IS CELEBRATING THEIR 10TH YEAR IN BUSINESS!



It all started in November 2004 in Sparta, New Jersey. One of Teesing's valuable suppliers, Rectus, offered Teesing office space. The first US customer was SVG in Wilton, Connecticut, which was later on taken over by ASML, world's largest supplier of photolithographic IC wafersteppers.

In 2005 Teesing USA moved to Lafayette, New Jersey, which enabled Teesing USA to open a warehouse so major parts could be delivered from stock and improved Teesing's service significantly towards US customers.

In the years after 2006 Teesing USA was staffed with sales and service people in order to support US customers in the best possible way. A list of international suppliers such as Serto, Parker, Gemu, Rotarex, Nycoil and Alfaflo is now working and supporting Teesing USA.

Now Teesing USA is celebrating its 10 years presence in the USA and is more than ready to supply parts, give help on instrumentation type of requests, engineer specific customer solutions and is able to stock your parts when needed.

Challenge us!
info@teesingusa.com



10
years

TEESING RUNNERS TEAM



The Teesing runners team participated in the TCS Amsterdam Marathon 2014! Next year the Teesing Runners will participate in the Rotterdam Marathon and will sponsor our partner World Cancer Research Fund.

TEESING

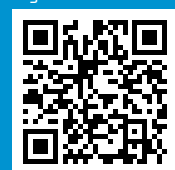
WE ENGINEER FROM SOURCE TO PROCESS

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